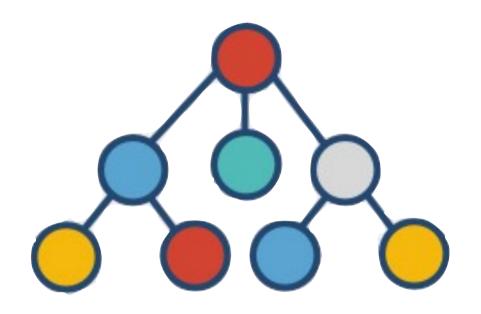
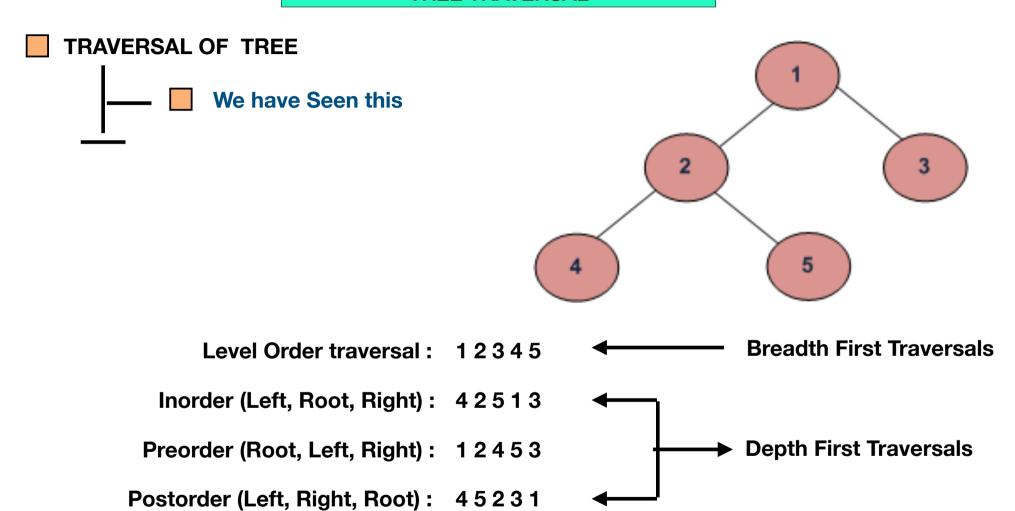
# **DATA STRUCTURE & ALGORITHMS**



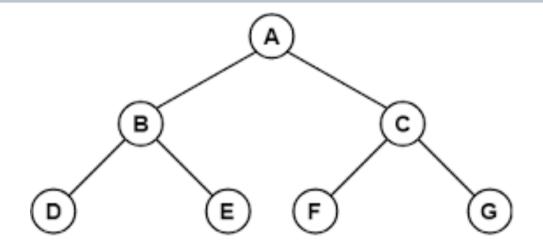
(By Prince Agarwal)
[ "HELLO WORLD" ]



INORDER TRAVERSAL. (LEFT. ROOT. RIGHT)

#### **Algorithm Inorder(tree)**

- 1. Traverse the left subtree, i.e., call Inorder(left-subtree)
- 2. Visit the root.
- 3. Traverse the right subtree, i.e., call Inorder(right-subtree)



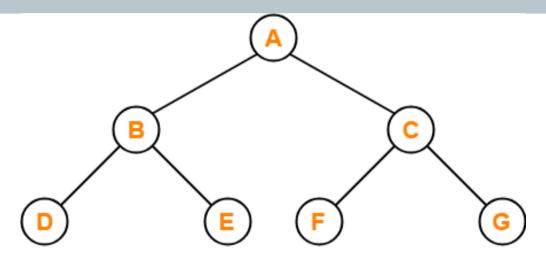
Inorder Traversal: D, B, E, A, F, C, G

Hello would

PREORDER TRAVERSAL. (ROOT LEFT RIGHT)

## **Algorithm Preorder(tree)**

- 1. Visit the root.
- 2. Traverse the left subtree, i.e., call Preorder(left-subtree)
- 3. Traverse the right subtree, i.e., call Preorder(right-subtree)

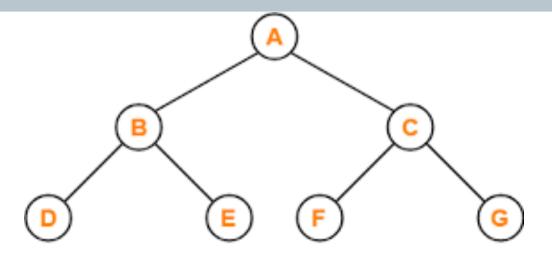


Preorder Traversal: A, B, D, E, C, F, G

### POSTORDER TRAVERSAL. (LEFT RIGHT ROOT)

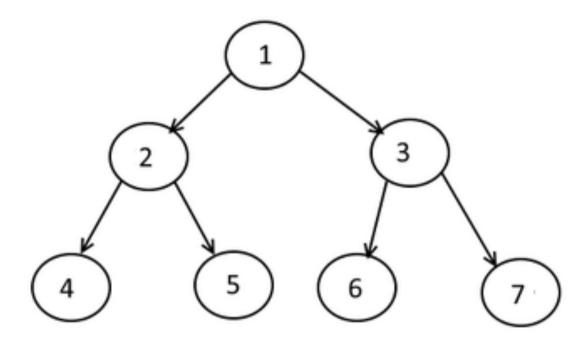
#### **Algorithm Postorder(tree)**

- 1. Traverse the left subtree, i.e., call Postorder(left-subtree)
- 2. Traverse the right subtree, i.e., call Postorder(right-subtree)
- 3. Visit the root.



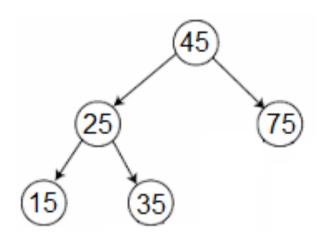
Postorder Traversal: D, E, B, F, G, C, A

## Examples



Inorder Traversal: 4251637

# Examples



Inorder Traversal:

15 25 35 45 75

# **Examples** 7. Print value 40 1. Visit left sub tree 8. Visit right sub tree 5. Print value 25 78 2. Visit left sub tree 6. Visit right sub tree 10 32 3. Left sub tree null. 4. Print value.

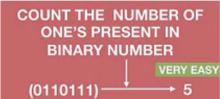
The above INORDER traversal gives: 10, 25, 32, 40, 78

TREE TRAVERSAL



Check the ith bit is set, in the binary form of given numbe...

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Count the number of one's in binary representation of...

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Check a given number is power of 2 | Bitwise operato...

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Left shift and right shift bitwise operator ||...

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Bitwise Operators | AND | NOT | OR | XOR || Competitiv...

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Bits Manipulation | Decimal to Binary | Binary to Decimal...

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#Prime Numbers

CONCEPT OF

PRIME NUMBERS

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Program and concept of prime numbers. ||...

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